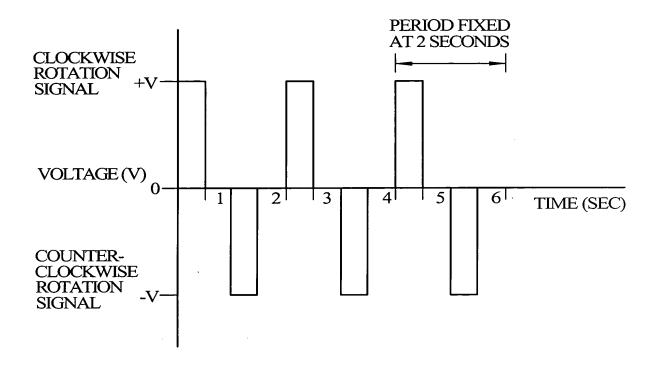
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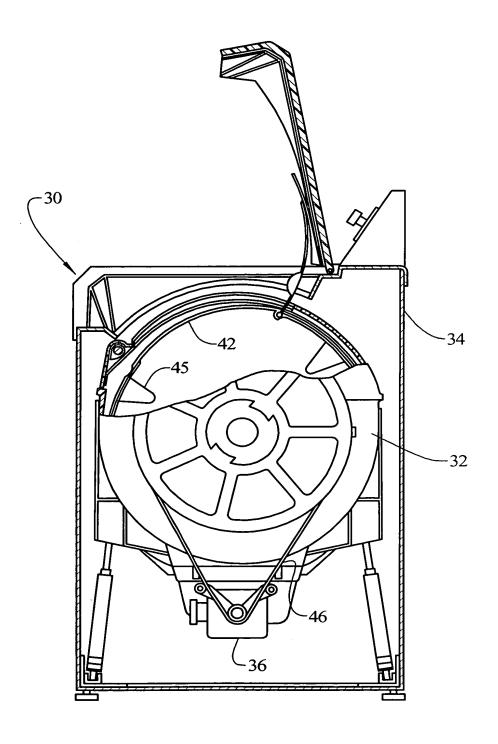
<u>FIG. 1</u> PRIOR ART



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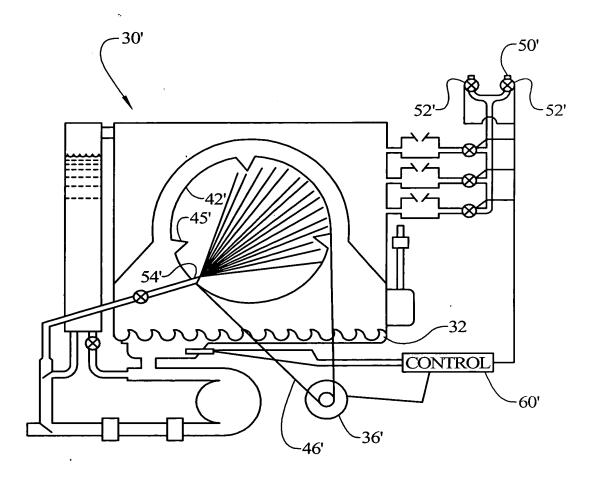
FIG. 2





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FIG. 3



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FIG. 4



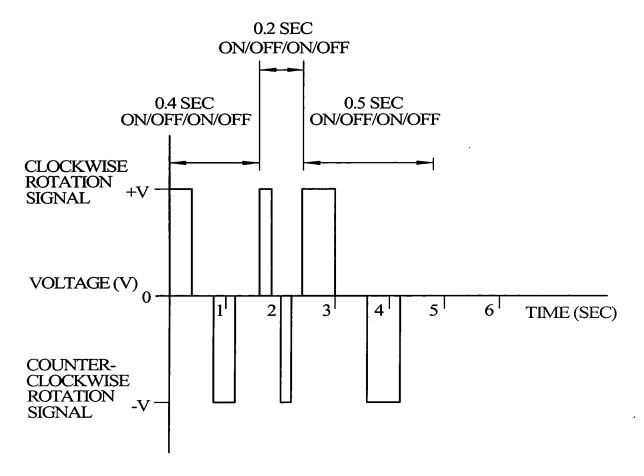
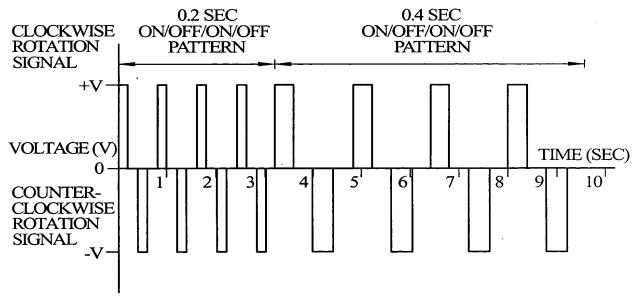


FIG. 5



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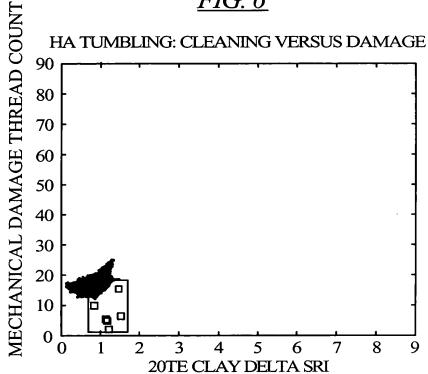
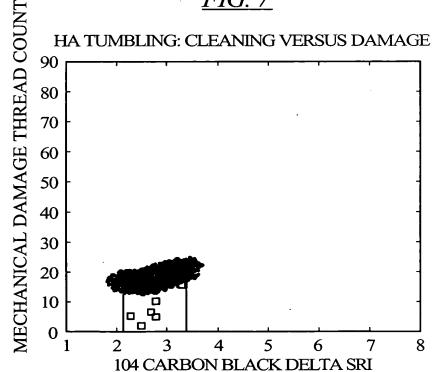


FIG. 7



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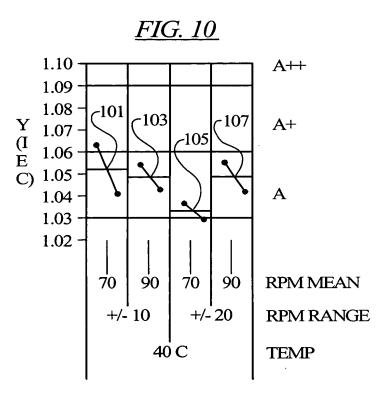
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FIG. 8

	CCW	CW
RPM MEAN (RPM)	70	70
RPM RANGE (RPM)	+/- 20	+/- 20
TORQUE (NM)	39	39
ON TIME (SEC)	0.3 - 0.5	0.3 - 0.5
OFF TIME (SEC)	0 - 0.3	0 - 0.3

FIG. 9

	CCW	CW
RPM MEAN (RPM)	70	90
RPM RANGE (RPM)	+/- 10	+/- 20
TORQUE (NM)	39	44
ON TIME (SEC)	0.3 - 0.5	0.3 - 0.5
OFF TIME (SEC)	0.05	0 - 0.3



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	CW RPM (RPM)	CCW RPM (RPM)	CCW RPM CW ON TIME (RPM) (SECONDS)	CW OFF TIME (SECONDS)	CCW ON TIME (SECONDS)	CCW OFF TIME (SECONDS)
FULL RANDOM A	50-90	50-90	0.135 - 2.0	0.135 - 2.0	0.135 - 2.0	0.135 - 2.0
FULL RANDOM B	30 - 75	30 - 75	0.135 - 1.0	0.135 - 1.0	0.135 - 1.0	0.135 - 1.0
FULL KANDOM B	c/ - 0c	50 - 05	0.135 - 1.0	0.135 - 1.0	0.135 -	1.0

	CW RPM (RPM)	CCW RPM (RPM)	CW DEG SWING (DEGREES)	CW OFF TIME (SECONDS)	CW RPM CW DEG SWING CW OFF TIME CCW DEG SWING CW OFF TIME (RPM) (RPM) (SECONDS) (SECONDS) (SECONDS)	CCW OFF TIME (SECONDS)
DEGREE RANDOM A 30 - 100 DEGREE RANDOM B 20 - 60	30 - 100	30 - 100	180 240	0.1 - 1.0	180 240	0.1 - 1.0 0.135 - 1.0

	CW RPM CCW RP (RPM)	CCW RPM (RPM)	RPM CHANGE (SECONDS)	CW DEG SWING (DEGREES)	CW OFF TIME (SECONDS)	PM RPM CHANGE CW DEG SWING CW OFF TIME CCW DEG SWING CW OFF TIME (SECONDS) (SECONDS) (SECONDS)	CCW OFF TIME (SECONDS)
2ATCHET RANDOM 50 +/- 30 50 +/- 30	50 +/- 30	50 +/- 30	0.3	360	0.5	360	0.5